Cicle(a,b,d) :=
$$\begin{vmatrix} s \leftarrow 0 \\ k \leftarrow 0 \\ p \leftarrow 0 \end{vmatrix}$$

for $x \in a, a + d \cdot b$
 $\begin{vmatrix} y \leftarrow \frac{x+1}{x} \\ e^x + \sin(x) \end{vmatrix}$
 $s \leftarrow s + y$
 $k \leftarrow k + 1$
 $p \leftarrow p \cdot y \text{ if } y > 0$
 $\left(\frac{s}{k}\right)$

$$Cicle(a,b,d) = \begin{pmatrix} 0.665 \\ 0 \end{pmatrix}$$

$$n := 2$$
 $i := 1...n$

$$x_{i} := md(n+3)$$

$$y_i := md(n + 7)$$

$$b := 6 + n$$

$$\begin{array}{c|c} Vector(x,n,a,b) := & s \leftarrow 0 \\ & k \leftarrow 0 \\ & for \ i \in 1...n \\ & s \leftarrow s + x_i \\ & k \leftarrow k + 1 \\ & \begin{pmatrix} ""s = " & s \\ "k = " & k \end{pmatrix} \end{array}$$

$$Vector(x,n,a,b) = \begin{pmatrix} ""s=" & 0.973 \\ "k=" & 2 \end{pmatrix}$$

$$Vector(y,n,a,b) = \begin{pmatrix} ""s=" & 8.418 \\ "k=" & 2 \end{pmatrix}$$

$$\begin{aligned} \text{Iter}(a,e) &:= & x \leftarrow a \\ n \leftarrow 0 \\ \text{while } x - \sqrt{a} > e \\ & n \leftarrow n+1 \\ & x + \frac{a}{x} \\ x \leftarrow \frac{x}{2} \\ & ("x="-x") \\ & n = "-n \end{aligned}$$

$$Iter(a,e) = \begin{pmatrix} "x=" & 4.478 \\ "n=" & 4 \end{pmatrix}$$

(-1.2)

$$\begin{array}{c} 1.3 \\ 2.2 \\ -2.5 \\ 0.8 \\ -0.9 \\ 1.1 \\ 0.7 \\ 0.6 \\ -0.7 \\ 1 \end{array} \qquad \begin{array}{c} S := \left[\begin{array}{c} ss \leftarrow 0 \\ for \ i \in 1...10 \\ \end{array} \right] \\ \text{for } j \in 1...i \\ p \leftarrow p \cdot a_i \\ ss \leftarrow ss + p \\ ss \end{array}$$

$$f(x) := \begin{cases} \sqrt{4 - x^2} & \text{if } -2 < x < 2 \\ 0 & \text{otherwise} \end{cases}$$

S = -6.836

